



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**21.08.2002 Bulletin 2002/34**

(51) Int Cl.7: **A61F 2/06**

(43) Date of publication A2:  
**30.08.2000 Bulletin 2000/35**

(21) Application number: **00301411.5**

(22) Date of filing: **23.02.2000**

(84) Designated Contracting States:  
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE**  
Designated Extension States:  
**AL LT LV MK RO SI**

(72) Inventor: **Hojeibane, Hikmat**  
**Princeton, New Jersey 08540 (US)**

(74) Representative: **Fisher, Adrian John et al**  
**CARPMAELS & RANSFORD**  
**43 Bloomsbury Square**  
**London WC1A 2RA (GB)**

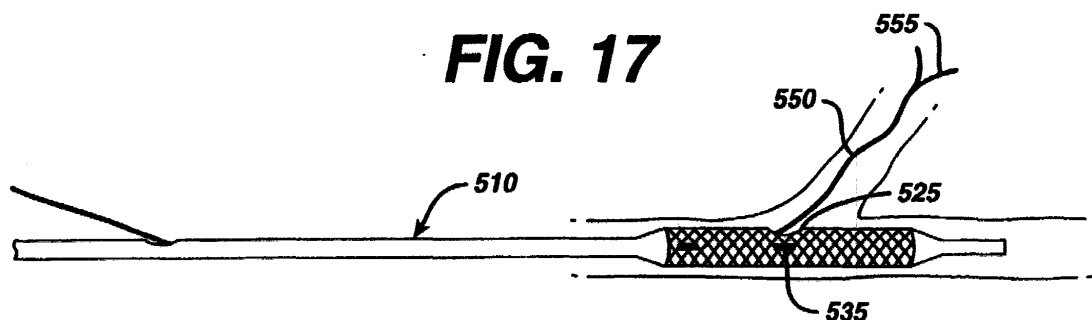
(30) Priority: **24.02.1999 US 256914**

(71) Applicant: **Cordis Corporation**  
**Miami FL 33126 (US)**

(54) **Bifurcated axially flexible stent**

(57) There is disclosed a method of stent placement which comprises first guiding a guidewire through the vasculature. Second, a balloon catheter which contains two guidewire lumens is strung along the guidewire into position at the bifurcation. The distal opening of the second guidewire lumen abuts the proximal end of the bifurcation. Thereafter, a second guidewire is strung

through the first balloon catheter and out the distal opening of the second guidewire lumen. Thus, resident in the second bifurcation leg is the second guidewire. Then, a second standard stent delivery balloon catheter is guided along the second guidewire to a position within the bifurcation. Typically, expansion of both stents can be done one right after the other after proper placement of the first and second balloons.





European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 00 30 1411

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	FR 2 733 682 A (DIBIE ALAIN) 8 November 1996 (1996-11-08) * page 3, line 24 - page 5, line 31 * * page 6, line 1 - line 18 *	1,7	A61F2/06
A	---	10,14-16	
X	US 5 800 508 A (GOICOECHEA GEORGE ET AL) 1 September 1998 (1998-09-01) * figures 1A,1B * * column 8, line 46 - line 63 * * column 9, line 58 - column 10, line 13 * * column 11, line 12 - line 52 *	16	
A	---	1,7,10, 14,15	
X	WO 97 41803 A (DIVYSIO SOLUTIONS LTD ;PENN IAN M (CA); RICCI DONALD R (CA); SHUKO) 13 November 1997 (1997-11-13) * page 12, line 1 - page 14, line 2 * * page 17, line 21 - page 19, line 27 *	7	
A	---	1-6,8-16	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
P,X	EP 0 904 745 A (APPLIED VASCULAR ENG INC) 31 March 1999 (1999-03-31) * figures 8A,8B * * paragraph '0088! - paragraph '0093! *	7	A61F
A	---	1,8-16	
A	WO 98 19628 A (VARDI GIL M ;DAVIDSON CHARLES J (US)) 14 May 1998 (1998-05-14) * figures 1-3 * * page 9, line 14 - page 10, line 2 * --- -/--	1-16	
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>2 July 2002</b>	Examiner <b>Mary, C</b>
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03/02 (P04001)



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 00 30 1411

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	US 5 755 771 A (PENN IAN M ET AL) 26 May 1998 (1998-05-26) * figure 2 * * column 5, line 28 - line 52 * * column 6, line 41 - line 64 * * column 7, line 33 - line 44 * ---	1,7,10, 14-16	
P,A	US 5 893 887 A (JAYARAMAN SWAMINATHAN) 13 April 1999 (1999-04-13) * figures 7,9,11 * * column 4, line 10 - column 5, line 19 * -----	1-5,7, 10,14-16	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>2 July 2002</b>	Examiner <b>Mary, C</b>
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 30 1411

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

02-07-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
FR 2733682	A	08-11-1996	FR 2733682 A1	08-11-1996
			AU 709513 B2	02-09-1999
			AU 5345096 A	21-11-1996
			CA 2220141 A1	07-11-1996
			EP 0957818 A1	24-11-1999
			WO 9634580 A1	07-11-1996
			JP 11504824 T	11-05-1999
			US 2001039448 A1	08-11-2001
			US 6346089 B1	12-02-2002
			US 6183509 B1	06-02-2001
US 5800508	A	01-09-1998	US 5609627 A	11-03-1997
			AT 188604 T	15-01-2000
			AT 191628 T	15-04-2000
			AT 191629 T	15-04-2000
			AU 693527 B2	02-07-1998
			AU 1870995 A	29-08-1995
			AU 3224599 A	05-08-1999
			AU 719206 B2	04-05-2000
			AU 6381598 A	18-06-1998
			AU 717678 B2	30-03-2000
			AU 6381698 A	18-06-1998
			CA 2182982 A1	17-08-1995
			DE 29521548 U1	10-07-1997
			DE 29521776 U1	27-08-1998
			DE 29522113 U1	07-10-1999
			DE 29522160 U1	13-04-2000
			DE 29522161 U1	30-03-2000
			DE 29522162 U1	30-03-2000
			DE 69514511 D1	17-02-2000
			DE 69514511 T2	05-10-2000
			DE 69516292 D1	18-05-2000
			DE 69516292 T2	14-12-2000
			DE 69516293 D1	18-05-2000
			DE 69516293 T2	31-08-2000
			DK 759729 T3	08-05-2000
			DK 783873 T3	18-09-2000
			DK 783874 T3	24-07-2000
			EP 0759729 A1	05-03-1997
			EP 0782841 A2	09-07-1997
			EP 0783873 A2	16-07-1997
			EP 0783874 A2	16-07-1997
			ES 2141339 T3	16-03-2000
			ES 2146951 T3	16-08-2000
			ES 2144824 T3	16-06-2000
			GR 3033211 T3	31-08-2000

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 30 1411

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

02-07-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5800508	A		GR 3033133 T3	31-08-2000
			GR 3033808 T3	31-10-2000
			JP 9511160 T	11-11-1997
			US 6117167 A	12-09-2000
			WO 9521592 A1	17-08-1995
			US 6302906 B1	16-10-2001
			US 6165213 A	26-12-2000
			US 5716365 A	10-02-1998
			US 5693086 A	02-12-1997
			US 5776180 A	07-07-1998
			US 5718724 A	17-02-1998
			US 5683450 A	04-11-1997
			US 5916263 A	29-06-1999
			US 6051020 A	18-04-2000
WO 9741803	A	13-11-1997	CA 2175720 A1	04-11-1997
			AU 2377397 A	26-11-1997
			WO 9741803 A1	13-11-1997
			EP 0959811 A1	01-12-1999
			JP 2001501496 T	06-02-2001
EP 0904745	A	31-03-1999	AU 8606898 A	15-04-1999
			CA 2246995 A1	24-03-1999
			EP 0904745 A2	31-03-1999
			JP 11188111 A	13-07-1999
WO 9819628	A	14-05-1998	AU 4896797 A	29-05-1998
			EP 0944366 A1	29-09-1999
			US 6210429 B1	03-04-2001
			WO 9819628 A1	14-05-1998
			WO 9936002 A1	22-07-1999
			US 2001016766 A1	23-08-2001
			US 2001037137 A1	01-11-2001
US 5755771	A	26-05-1998	CA 2134997 A1	04-05-1996
			AT 166783 T	15-06-1998
			AU 3678599 A	28-10-1999
			AU 3739795 A	31-05-1996
			WO 9614028 A1	17-05-1996
			CZ 9701329 A3	17-12-1997
			DE 69502817 D1	09-07-1998
			DE 69502817 T2	25-02-1999
			DK 751752 T3	22-03-1999
			EP 0751752 A1	08-01-1997
			EP 0847734 A2	17-06-1998
			ES 2119487 T3	01-10-1998

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 30 1411

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

02-07-2002

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5755771      A	GR	3027774 T3	30-11-1998
	HK	1009322 A1	28-05-1999
	JP	10508234 T	18-08-1998
	RU	2180198 C2	10-03-2002
	US	6099560 A	08-08-2000
	US	5906640 A	25-05-1999
<hr/>			
US 5893887      A	13-04-1999	NONE	
<hr/>			